

FLAT PANEL LUMINAIRE HAVING EMBEDDED LIGHT GUIDES

Abstract of the Disclosure

A flat panel luminaire having embedded irregular tetrahedrally-shaped light guides for controlled light extraction is provided. The luminaire includes a light source, which can be remote, an optical light pipe, and a light-emitting panel. The light-emitting panel includes a tapered light-injection zone joined to a light-emitting zone having the embedded irregular tetrahedrally-shaped light guides. The surface and cross-sectional areas of the light guides gradually increase as the light guides extend away from the tapered zone. Methods of illuminating an area using such light guides are also provided.